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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/660,381	09/12/2000	Ernst F. Schroder	RCA 90,316	6814
7590 12/05/2003 .			EXAMINER	
Joseph S Tripoli			BROWN, VERNAL U	
Patent Operation	ns			
Thomson Multimedia Licensing Inc			ART UNIT	PAPER NUMBER
CN 5312			2635	1 pr
Princeton, NJ 08543-0028				1
			DATE MAILED: 12/05/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No. Applicant(s)					
000	09/660,381	SCHRODER, ERNST F.				
Office Action Summary	Examiner	Art Unit				
· · · · · · · · · · · · · · · · · · ·	Vernal U Brown	2635				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a positive ply within the statutory minimum of third d will apply and will expire SIX (6) MON the cause the application to become all	reply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this communication.				
1) Responsive to communication(s) filed on 25 s	September 2003.					
2a) This action is FINAL . 2b) ⊠ This	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-6</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d)						
11)∟J The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.						
 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 						
* See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domest since a specific reference was included in the fir 37 CFR 1.78. a) The translation of the foreign language process.	ic priority under 35 U.S.C. state sentence of the specifical	§ 119(e) (to a provisional application) tion or in an Application Data Sheet.				
14) Acknowledgment is made of a claim for domesti reference was included in the first sentence of the	ic priority under 35 U.S.C. 8	S 120 and/or 121 since a specific				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Inf	immary (PTO-413) Paper No(s) formal Patent Application (PTO-152)				
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	6) Other:	•				

Application/Control Number: 09/660,381 Page 2

Art Unit: 2635

DETAILED ACTION

This action is responsive to communication filed on September 25, 2003.

Response to Amendment

The examiner has acknowledged the amended claims 1 and 4, and the addition of claims 5 and 6.

Response to Arguments

Applicant's arguments filed September 25, 2003 have been fully considered but they are not persuasive.

Regarding applicant argument on page 4 concerning the location of the appliance to be controlled, the argued limitation is not in the claims.

Regarding applicant argument concerning the determination of the relative position of the microphone based on the different propagation delays, the reference of Matsuo is relied upon for teaching the determination of the relative position of the microphone based on the different propagation delays.

Applicant's arguments with respect to microphone array have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Application/Control Number: 09/660,381

Art Unit: 2635

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 4, and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Launey et al. U.S Patent 5086385 in view of Matsuo U.S Patent 6317501 in view of Kostka et al. U.S Patent 6223160 and further in view of Thrift et al. U.S Patent 6188985.

Regarding claim 1, Launey et al. teaches a voice control system for consumer electronic devices (col. 14 lines 13-15) with one or more external speakers (66), using a microphone array (64), the voice control system comprising a plurality of microphones for converting a detected signal to an electrical signal (col. 10 lines 3-16);

a central signal processing unit (10) connected to the plurality of microphones (figure 1) the signal processing unit processing the electrical output signals according to the respective position of the microphones relative to the user (col. 15 lines 37-40); a central speech recognition unit (58) for converting the electrical signals from the signal processing unit into operational commands for the consumer electronics device (col. 12 lines 1-5). Launey et al. is however silent on teaching one or more microphones integrated in the loudspeaker, the use of a microphone array and the respective position of the microphone is given by different delays. Matsuo in an art related microphone array apparatus teaches the position of a sound source is determined by the propagation delay (col. 2 line 58-col3 line 11). Matsuo is however silent on teaching one or more microphones integrated in the loudspeaker. Kostka et al. in an art related acoustic command system teaches the integration of a microphone

Application/Control Number: 09/660,381

Art Unit: 2635

and a loudspeaker into a single unit (col. 3 lines 22-24). One skilled in the art recognizes the conventional use of microphone array in a voice control system in order to distinguish between a user's voice and other sound as evidenced by Thrift et al. (col. 2 lines 65-67).

It would have been obvious to one of ordinary skill to have one or more microphones integrated in the loudspeaker and the respective position of the microphone is given by different delays in). Launey et al. as evidenced by Matsuo in view of Kostka et al. because Launey et al. suggests a voice control system for a consumer electronic device and Matsuo teaches the use of microphone to detect sound source and delay of the detected sound signal and the location of the sound source is determined by the delay of the sound signal and . Kostka et al. teaches the integration of the microphone and the loudspeaker to form an audio unit. One skilled in the art recognizes the conventional use of microphone array in a voice control system order distinguish between a user's voice and other sound as evidenced by Thrift et al.

Regarding claim 2, Launey et al. teaches the appliances are connected via AT bus (col. 14 lines 48-49). The AT bus forms a bi-directional network.

Regarding claim 4, Launey et al. teaches the consumer electronics controlled by the voice control system includes a television set (col. 17 lines 15-16).

Regarding claim 5, Launey et al. teaches all microphones (64) are connected to the same signal processing unit (58).

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Launey et al. U.S. Patent 5086385 in view of Matsuo U.S. Patent 6317501 in view of Kostka et al. U.S. Patent

Art Unit: 2635

6223160 in view of Thrift et al. U.S Patent 6188985 and further in view of Lea U.S Patent 6349352.

Regarding claim 3, Launey et al. in view of Matsuo in view of Kostka et al. in view of Thrift et al. teaches the appliances are connected via a AT bus network (col. 14 lines 48-49) but is silent on teaching the bi-directional network is based on the IEEE 1394 bus. Lea in an art related Home Audio/Video Network With Both Generic And Parameterized Device Control teaches the use of the IEEE 1394 bus to connect home appliance (col. 7 lines 48-49).

It would have been obvious to one of ordinary skill in the art for the bi-directional network to be based on the IEEE 1394 bus in Launey et al. in view of Matsuo in view of Kostka et al. in view of Thrift et al. as evidenced by Lea because Launey et al. in view of Matsuo in view of Kostka et al. in view of Thrift et al. suggests the use of a standard type network bus and Lea teaches the use of the IEEE 1394 bus as a standard bus to connect home appliances.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Launey et al. U.S Patent 5086385 in view of Matsuo U.S Patent 6317501 in view of Kostka et al. U.S Patent 6223160 in view of Thrift et al. U.S Patent 6188985 and further in view of Abe et al. U.S Patent 5218641.

Regarding claim 6, Launey et al. in view of Matsuo in view of Kostka et al. in view of Thrift et al. teaches a voice control system for consumer electronic devices (col. 14 lines 13-15) with one or more external speakers (66) but is silent on teaching one or more loudspeakers are connected via a radio network. Abe et al. in art related audio signal receiver invention teaches a wireless loudspeaker.

Application/Control Number: 09/660,381

Art Unit: 2635

Page 6

It would have been obvious to one of ordinary skill in the art to have one or more

loudspeakers are connected via a radio network in Launey et al. in view of Matsuo in view of

Kostka et al. in view of Thrift et al. as evidenced by Abe et al. because Launey et al. in view of

Matsuo in view of Kostka et al. in view of Thrift et al. suggests a voice control system in which

speakers are connected by a wired network and Abe et al. teaches a loudspeaker with a wireless

receiver.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Vernal U Brown whose telephone number is 703-305-3864. The

examiner can normally be reached on M-Th, 8:30 AM-6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Horabik can be reached on 703-305-4704. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-305-4750.

Vernal Brown

November 25, 2003

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